













Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b> Application Number <u>10/753,477</u> Filing Date <u>01/08/04</u> First Named Inventor <u>Kia Silverbrook</u> Art Unit <u>2853</u> Examiner Name <u>AN H. DO</u> Attorney Docket Number <u>ZE002US</u>	
Sheet	1	of	7

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (If known)			
<i>[Signature]</i>		US-5,719,602 *	Feb 17, 1998	Hackleman et al	
<i>[Signature]</i>		US-6,312,114 *	Nov 6, 2001	Silverbrook	
<i>[Signature]</i>		US-4,708,130 *	Nov 10, 1987	Yamakawa	
<i>[Signature]</i>		US-4,947,192 *	Aug 7, 1990	Hawkins et al	
<i>[Signature]</i>		US-5,107,276 *	Apr 21, 1992	Kneazel et al	
<i>[Signature]</i>		US-5,160,945 *	Nov 3, 1992	Drake	
<i>[Signature]</i>		US-5,412,410 *	May 2, 1995	Rezanka	
<i>[Signature]</i>		US-5,867,183 *	Feb 2, 1999	Cornell et al	
<i>[Signature]</i>		US-5,218,754 *	Jun 15, 1993	Rangappan	
<i>[Signature]</i>		US-5,565,900 *	Oct 15, 1996	Cowger et al	
<i>[Signature]</i>		US-5,057,854 *	Oct 15, 1991	Pond et al	
<i>[Signature]</i>		US-6,007,187	Dec 28, 1999	Kashino et al	
<i>[Signature]</i>		US-5,896,155	Apr 20, 1999	Lebens et al	
<i>[Signature]</i>		US-5,812,159	Sep 22, 1998	Anagnostopoulos et al	
<i>[Signature]</i>		US-4,855,567	Aug 8, 1989	Mueller	
<i>[Signature]</i>		US-5,719,604	Feb 17, 1998	Inui et al	
<i>[Signature]</i>		US-5,666,141	Sep 9, 1997	Majaba et al	
<i>[Signature]</i>		US-4,672,398	Jun 9, 1987	Kuwabara et al	
<i>[Signature]</i>		US-4,737,802	Apr 12, 1988	Mielke	
<i>[Signature]</i>		US-5,029,805	Jul 9, 1991	Albarda et al	
<i>[Signature]</i>		US-5,258,774	Nov 2, 1993	Rogers	
<i>[Signature]</i>		US-4,553,393	Nov 19, 1985	Ruoff	
<i>[Signature]</i>		US-4,864,824	Sep 12, 1989	Gabriel et al	
<i>[Signature]</i>		US-4,423,401	Dec 27, 1983	Mueller	

FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> , Kind Code <sup>5</sup> (If known)				
		JP	40400105A *	Jan 6, 1992	Komai		
		WO	01/42020 *	Jun 14, 2001	Silverbrook		
		EP	0-842-777-B1 *	May-20-1998	Ganon Kabushiki		
		EP	0.713.774	May 29, 1996	Sharp Kabushiki Kaisha		
		DE	195.16.997	Nov 18, 1995	Sharp K.K		
		DE	196 23 620	Dec 19, 1996	Sharp K.K		
		JP	2-108544 (Abstract)	Apr 20, 1990	Seiko Epson Corp		
		JP	2-92643 (Abstract)	Apr 3, 1990	Seiko Epson Corp		
		JP	4-353458 (Abstract)	Dec 8, 1992	Brother Ind Ltd		
		JP	6-91865 (Abstract)	Apr 5, 1994	Seikosha Co Ltd		
		JP	6-91866 (Abstract)	Apr 5, 1994	Seikosha Co Ltd		
		JP	2-265752 (Abstract)	Oct 30, 1990	Matsushita Electronic Ind Co Ltd		

Examiner Signature <i>[Signature]</i>	Date Considered <u>5/13/04</u>
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Substitute for form 1449A/PTO			Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/753,477
			Filing Date	08/08/04
			First Named Inventor	Kia Silverbrook
			Art Unit	2853
			Examiner Name	AN H. DO
			Attorney Docket Number	ZE002US
Sheet	2	of	7	

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FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		EP 0 634 273	Jan 18, 1995	Sharp Kabushiki Kaisha		
		DE 195 32 913	Mar 28, 1996	Sharp K.K.		
		JP 58-112747 (Abstract)	Jul 5, 1983	Fujitsu-KK		
		DE 43 28 433	Mar. 2, 1995	Heidelberg Druckmaschinen AG		
		JP 61 025849 (Abstract)	Feb 4, 1986	Canon Inc		
		JP 01 128839 (Abstract)	May 22, 1989	Ricoh Co Ltd		
		JP 04 126255 (Abstract)	Apr 27, 1992	Seiko Epson Corp		
		GB 2 262 152	June 9, 1993	Willet Int Ltd		
		DE 195-16-997	Nov-16-1995	Sharp K-K		
		JP 05 318724 (Abstract)	Dec. 3, 1993	Seikosha Co Ltd		
		JP 02 162049 (Abstract)	Jun 21, 1990	Seiko Epson Corp		
		DE 32 45 283	Jun 7, 1984	Siemens AG		

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				Filing Date	01/08/04
				First Named Inventor	Kia Silverbrook
				Art Unit	2853
				Examiner Name	Aal H. D.O
				Attorney Docket Number	ZE002US
Sheet	3	of	7		

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FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>a</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>[Signature]</i>		JP 04 368851 (Abstract)	Dec 21, 1992	Seiko Epson Corp		
<i>[Signature]</i>		JP 02 158348 (Abstract)	Jun 18, 1990	Minolta Camera Co Ltd		
<i>[Signature]</i>		JP 03-112662 (Abstract)	May-14-1991	Seiko-Epson-Corp		
<i>[Signature]</i>		JP 03.653348. (Abstract)	Mar.20..1991	Matsushita Electric Ind.Co		
<i>[Signature]</i>		EP 0 431 338	Jun 12, 1991	Matsushita Electric Ind Co		
<i>[Signature]</i>		JP 01 257058	Oct 13, 1989	Seiko Epson Corp		
<i>[Signature]</i>		DE 195 17 969	Nov 30, 1995	Sharp K.K		
<i>[Signature]</i>		DE 198 39 717	Apr 17, 1997	Sharp K.K		
<i>[Signature]</i>		EP 0 737-580	Oct-16-1996	Canon-K.K		
<i>[Signature]</i>		EP 0.882.590	Dec.9..1998	Canon.K.K		
<i>[Signature]</i>		EP 0 478 956	Apr 8, 1992	Kernforschungsuz Karlsruhe GMBH		
<i>[Signature]</i>		DE 1 648 322	Mar 24, 1971	VDO Tachometerwerke GMBH		

Examiner Signature	<i>Arbuckle</i>	Date Considered	5/13/04
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Sheet 4 of 7

**Complete if Known**

Application Number	10/753,477
Filing Date	01/08/04
First Named Inventor	Kia Silverbrook
Art Unit	2853
Examiner Name	AN H. DO
Attorney Docket Number	ZE002US

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FOREIGN PATENT DOCUMENTS						
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		Country Code 3 - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
<i>W</i>		GB 1 428 239	Mar 17, 1976	Cible Projecteurs		
<i>W</i>		DE 39 34 280	Apr 26, 1990	CAE di Cipellatti Albarto		
<i>W</i>		DE 29 05 063	Aug 14, 1980	Olympia-Werke AG		
<i>W</i>		WO 94.18010	Aug 18, 1994	Domino Printing Sciences PLC		
<i>W</i>		EP 0 398 031	Nov 22, 1990	Seiko Epson Corp		
<i>W</i>		EP 0 427 291	May 15, 1991	Seiko Epson Corp		
<i>W</i>		JP 01 115639 (Abstract)	May 8, 1989	Ricoh Co Ltd		
<i>W</i>		JP 58 116185 (Abstract)	Jul 11, 1983	Canon K.K		
<i>W</i>		EP 0 627 314	Dec 7, 1994	Olivetti Canon-Ind.SPA		
<i>W</i>		JP 61.268453 (Abstract)	Nov 27, 1988	Olympus Optical Co.Ltd		
<i>W</i>		JP 04 118241 (Abstract)	Apr 20, 1992	Seiko Epson Corp		
<i>W</i>		EP 0 508 232	Sep 30, 1992	Videojet Systems Int, Inc		

**Examiner  
Signature**

Date Considered

5/13/04

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	5	of	7
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Filing Date	01/08/04
First Named Inventor	Kia Silverbrook
Art Unit	2853
Examiner Name	AN H. DO
Attorney Docket Number	ZE002US

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		Country Code 3 - Number 4 - Kind Code 5 (if known)			
<i>[Signature]</i>		JP 07 314685 (Abstract)	Dec 5, 1995	Canon Inc	
<i>[Signature]</i>		JP 03 180350	Aug 6, 1991	Seiko Epson Corp	
<i>[Signature]</i>		WO 97-12689	Apr-10, 1997	The Board of Trustees of the Leland Stanford University	
<i>[Signature]</i>		JP 02 050841 (Abstract)	Feb 20, 1990	Seiko Epson Corp	
<i>[Signature]</i>		EP 0 510 648	Oct 28, 1992	Itai Yehuda	
<i>[Signature]</i>		JP 05 28765 (Abstract)	Oct 29, 1993	Canon Inc	
<i>[Signature]</i>		JP 04 141429 (Abstract)	May 14, 1992	Seiko Epson Corp	
<i>[Signature]</i>		JP 01-105746 (Abstract)	Apr-24, 1989	Ricoh Co-Ltd	
<i>[Signature]</i>		GB 792,145	Mar 19, 1958	Technograph Printed Circuits Ltd	
<i>[Signature]</i>		EP 0 750 993	Jan 2, 1997	Canon K.K	
<i>[Signature]</i>		JP 01 306254 (Abstract)	Dec 11, 1989	Seiko Epson Corp	

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			Filing Date	01/08/04
			First Named Inventor	Kia Silverbrook
			Art Unit	2853
			Examiner Name	AAJ H. DO
			Attorney Docket Number	ZE002US
Sheet	6	of	7	

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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
Application Number		Filing Date	
	10/753,477		01/08/04
First Named Inventor		Group Art Unit	
	Kia Silverbrook		2853
Examiner Name		Attorney Docket Number	
	AN H. DO		ZE002US
Sheet	7	of	7

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
Sg		*NOWOROLSKI, J. MARK et al, "Process for in-plane and out-of-plane single-crystal-silicon thermal microactuators". Sensors and Actuators, A, CH, Elsevier-Sequoia S.A., Lausanne, Vol. 55, no. 1, 15 July 1996, pp 65-69, XP004077979 ISSN: 0924-4247.	
B		*ATAKA, MANABU et al, "Fabrication and Operation of Polymide-Bimorph Actuators for Ciliary Motion System". Journal of Microelectromechanical Systems, US, IEEE Inc. New York, Vol. 2, no. 4, 1 December 1993, pp 146-150, XP000443412, ISSN: 1057-7157.	
B		*YAMAGATA, YUTAKA et al, "A Micro Mobile Mechanism Using Thermal Expansion and its Theoretical Analysis". Proceeding of the workshop on micro electro mechanical systems (MEMS), US, New York, IEEE, Vol. Workshop 7, 25 January 1994, pp 142-147, XP000528408, ISBN: 0-7803-1834-X.	

Examiner Signature	Date Considered
An H. DO	5/13/04

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